

SEQUENCE LISTING

<110> APOGENIX Biotechnology AG

<120> Improved FC Fusion Proteins

<130> 31098PWO-HC

<140> PCT/EP2004/003239

<141> 2004-03-26

<150> PCT/2004/003239

<151> 2004-03-26

<160> 82

<170> PatentIn Ver. 2.1

<210> 1

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
for the amplification of CD95 cDNA

<220>

<223> Sense huCD95-Hind III

<400> 1

tataaagctt gccaccatgc tgggcatctg

30

<210> 2

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for
the amplification of CD95 cDNA

<220>

<223> Antisense huCD95-BgI II

<400> 2

tataagatct ggatccttcc tctttgc

27

<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer

for the amplification of IgG1 Fc cDNA

<220>

<223> Sense hulG1Fc-BgIII

<400> 3

tataagatct tgtgacaaaa ctcacacatg

30

<210> 4

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for
the amplification of IgG1 Fc cDNA

<220>

<223> Antisense hulG1Fc-XhoI

<400> 4

tataactcgag tcatttaccc ggagacaggg

30

<210> 5

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for
the changing the Kozak Sequence from GCCACCATGC to
GCCGCCACCATGG

<220>

<223> ShuCD95EC_altKozak

<400> 5

tataaagctt gccgccacca tgggtgggcat c

31

<210> 6

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
for the changing the Kozak Sequence from
GCCACCATGC to GCCGCCACCATGG

<220>

<223> AS698 hulG1Fc-XhoI

<400> 6

tataactcgag tcatttaccc ggagacaggg

30

<210> 7
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for
amplifying cDNA of human IgG1 Fc (partial hinge
CH3)

<220>
<223> Sense_hulgG1

<400> 7
ccagggactc ctgcctcttg tgacaaaact cacacatg

38

<210> 8
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for
amplifying cDNA of human IgG1 Fc (partial hinge
CH3)

<220>
<223> Antisense_ERIhulgG1

<400> 8
tatagaattc tcatttaccc ggagacaggg

30

<210> 9
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer used to
amplify the cDNA of TRAILR2 domain

<220>
<223> Sense_HIII_TRAILR2

<400> 9
tataaagctt gccgccacca tggaacaacg gggacagaa

40

<210> 10
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer used to
 amplify the cDNA of TRAILR2 domain

<220>
 <223> Antisense_TRAILR2

<400> 10
 gtgagttttg tcacaagagg caggagtcctt tgg 33

<210> 11
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer for PCR
 used to utilize fragments for cloning purposes

<220>
 <223> Sense_HIII_TRAILR2

<400> 11
 tataaagctt gccgccacca tggaacaacg gggacagAAC 40

<210> 12
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer for
 PCR used to utilize fragments for cloning
 purposes

<220>
 <223> Antisense_ERIhulg1

<400> 12
 tatagaattc tcatttaccc ggagacaggg 30

<210> 13
 <211> 335
 <212> PRT
 <213> human

<220>
 <223> CD95 >sp/P25445/TNR6_HUMAN Tumor necrosis factor
 receptor superfamily 6 precursor (FASL-receptor)
 (Apoptosis-mediating surface antigen FAS) (Apo-1
 antigen) (CD95) - Homo sapiens (Human)

<400> 13
 Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala

1	5	10	15												
Arg	Leu	Ser	Ser	Lys	Ser	Val	Asn	Ala	Gln	Val	Thr	Asp	Ile	Asn	Ser
			20					25						30	
Lys	Gly	Leu	Glu	Leu	Arg	Lys	Thr	Val	Thr	Thr	Val	Glu	Thr	Gln	Asn
		35					40					45			
Leu	Glu	Gly	Leu	His	His	Asp	Gly	Gln	Phe	Cys	His	Lys	Pro	Cys	Pro
	50					55					60				
Pro	Gly	Glu	Arg	Lys	Ala	Arg	Asp	Cys	Thr	Val	Asn	Gly	Asp	Glu	Pro
65					70					75					80
Asp	Cys	Val	Pro	Cys	Gln	Glu	Gly	Lys	Glu	Tyr	Thr	Asp	Lys	Ala	His
				85					90					95	
Phe	Ser	Ser	Lys	Cys	Arg	Arg	Cys	Arg	Leu	Cys	Asp	Glu	Gly	His	Gly
			100					105					110		
Leu	Glu	Val	Glu	Ile	Asn	Cys	Thr	Arg	Thr	Gln	Asn	Thr	Lys	Cys	Arg
		115					120					125			
Cys	Lys	Pro	Asn	Phe	Phe	Cys	Asn	Ser	Thr	Val	Cys	Glu	His	Cys	Asp
	130					135					140				
Pro	Cys	Thr	Lys	Cys	Glu	His	Gly	Ile	Ile	Lys	Glu	Cys	Thr	Leu	Thr
145					150					155					160
Ser	Asn	Thr	Lys	Cys	Lys	Glu	Glu	Gly	Ser	Arg	Ser	Asn	Leu	Gly	Trp
			165						170					175	
Leu	Cys	Leu	Leu	Leu	Leu	Pro	Ile	Pro	Leu	Ile	Val	Trp	Val	Lys	Arg
		180					185						190		
Lys	Glu	Val	Gln	Lys	Thr	Cys	Arg	Lys	His	Arg	Lys	Glu	Asn	Gln	Gly
		195					200					205			
Ser	His	Glu	Ser	Pro	Thr	Leu	Asn	Pro	Glu	Thr	Val	Ala	Ile	Asn	Leu
	210					215					220				
Ser	Asp	Val	Asp	Leu	Ser	Lys	Tyr	Ile	Thr	Thr	Ile	Ala	Gly	Val	Met
225				230					235						240
Thr	Leu	Ser	Gln	Val	Lys	Gly	Phe	Val	Arg	Lys	Asn	Gly	Val	Asn	Glu
			245					250						255	
Ala	Lys	Ile	Asp	Glu	Ile	Lys	Asn	Asp	Asn	Val	Gln	Asp	Thr	Ala	Glu
		260					265						270		
Gln	Lys	Val	Gln	Leu	Leu	Arg	Asn	Trp	His	Gln	Leu	His	Gly	Lys	Lys
	275						280					285			
Glu	Ala	Tyr	Asp	Thr	Leu	Ile	Lys	Asp	Leu	Lys	Lys	Ala	Asn	Leu	Cys
	290					295					300				
Thr	Leu	Ala	Glu	Lys	Ile	Gln	Thr	Ile	Ile	Leu	Lys	Asp	Ile	Thr	Ser

305		310		315		320								
Asp	Ser	Glu	Asn	Ser	Asn	Phe	Arg	Asn	Glu	Ile	Gln	Ser	Leu	Val
			325						330				335	

<210> 14
 <211> 330
 <212> PRT
 <213> human

<220>
 <223> IgG1 > sp/P01857/GC1_HUMAN Ig gamma-1 chain C
 region - Homo sapiens (Human)

<400> 14
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15
 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20 25 30
 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50 55 60
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80
 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95
 Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 115 120 125
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 130 135 140
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 145 150 155 160
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 165 170 175
 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 180 185 190
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 195 200 205
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly

210	215	220
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu		
225	230	235 240
Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr		
	245	250 255
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn		
	260	265 270
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe		
	275	280 285
Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn		
	290	295 300
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr		
305	310	315 320
Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys		
	325	330

<210> 15
 <211> 400
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MUTAGEN
 <222> (1)..(400)
 <223> CD95-Fc fusion protein (AA 1-172 CD95 and AA
 102-330 IgG1)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 15
 Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala
 1 5 10 15
 Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr Asp Ile Asn Ser
 20 25 30
 Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Thr Val Glu Thr Gln Asn
 35 40 45
 Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His Lys Pro Cys Pro
 50 55 60
 Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn Gly Asp Glu Pro
 65 70 75 80
 Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr Asp Lys Ala His
 85 90 95

Phe	Ser	Ser	Lys	Cys	Arg	Arg	Cys	Arg	Leu	Cys	Asp	Glu	Gly	His	Gly		
			100					105					110				
Leu	Glu	Val	Glu	Ile	Asn	Cys	Thr	Arg	Thr	Gln	Asn	Thr	Lys	Cys	Arg		
		115					120					125					
Cys	Lys	Pro	Asn	Phe	Phe	Cys	Asn	Ser	Thr	Val	Cys	Glu	His	Cys	Asp		
	130					135					140						
Pro	Cys	Thr	Lys	Cys	Glu	His	Gly	Ile	Ile	Lys	Glu	Cys	Thr	Leu	Thr		
145				150						155					160		
Ser	Asn	Thr	Lys	Cys	Lys	Glu	Glu	Gly	Ser	Arg	Ser	Cys	Asp	Lys	Thr		
			165					170						175			
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser		
		180					185						190				
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg		
	195					200						205					
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro		
	210				215						220						
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala		
225				230					235					240			
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val		
			245					250						255			
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr		
		260					265					270					
Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr		
	275					280						285					
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu		
	290					295					300						
Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys		
305				310					315					320			
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser		
			325					330					335				
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp		
		340					345						350				
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser		
	355					360					365						
Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala		
	370				375						380						
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys		
385					390				395					400			

<210> 16
<211> 43
<212> PRT
<213> human

<220>
<223> CD95 extracellular domain (AA 131-173)

<400> 16
Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys
1 5 10 15
Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn
20 25 30

Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn
35 40

<210> 17
<211> 22
<212> PRT
<213> human

<220>
<223> huIgG1 (AA 99-120)

<400> 17
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15

Pro Glu Leu Leu Gly Gly
20

<210> 18
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> CD95-Fc fusion protein of CD95 extracellular
domain (AA 131-173) and huIgG1 (AA99-120) with an
overlapping amino acid (CD95 AA 172 and huIgG1 AA
102)

<220>
<223> Description of Artificial Sequence: fusion
protein

<400> 18

Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys
1 5 10 15
Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn
20 25 30
Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Cys Asp Lys Thr His Thr
35 40 45
Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55 60

<210> 19

<211> 468

<212> PRT

<213> human

<220>

<223> TRAIL-R1 >sp/000220/T10A_HUMAN Tumor necrosis
factor receptor superfamily member 10A precursor
(Death receptor 4) (TNF-related
apoptosis-including ligand receptor 1) (TRAIL
receptor-1) (TRAIL-R1)

<400> 19

Met Ala Pro Pro Pro Ala Arg Val His Leu Gly Ala Phe Leu Ala Val
1 5 10 15
Thr Pro Asn Pro Gly Ser Ala Ala Ser Gly Thr Glu Ala Ala Ala Ala
20 25 30
Thr Pro Ser Lys Val Trp Gly Ser Ser Ala Gly Arg Ile Glu Pro Arg
35 40 45
Gly Gly Gly Arg Gly Ala Leu Pro Thr Ser Met Gly Gln His Gly Pro
50 55 60
Ser Ala Arg Ala Arg Ala Gly Arg Ala Pro Gly Pro Arg Pro Ala Arg
65 70 75 80
Glu Ala Ser Pro Arg Leu Arg Val His Lys Thr Phe Lys Phe Val Val
85 90 95
Val Gly Val Leu Leu Gln Val Val Pro Ser Ser Ala Ala Thr Ile Lys
100 105 110
Leu His Asp Gln Ser Ile Gly Thr Gln Gln Trp Glu His Ser Pro Leu
115 120 125
Gly Glu Leu Cys Pro Pro Gly Ser His Arg Ser Glu His Pro Gly Ala
130 135 140
Cys Asn Arg Cys Thr Glu Gly Val Gly Tyr Thr Asn Ala Ser Asn Asn

145		150		155		160
Leu Phe Ala Cys	Leu Pro Cys Thr Ala Cys	Lys Ser Asp Glu Glu Glu				
	165	170	175			
Arg Ser Pro Cys	Thr Thr Thr Arg Asn Thr Ala Cys	Gln Cys Lys Pro				
	180	185	190			
Gly Thr Phe Arg	Asn Asp Asn Ser Ala Glu Met Cys	Arg Lys Cys Ser				
	195	200	205			
Arg Gly Cys Pro	Arg Gly Met Val Lys Val Lys Asp Cys Thr Pro Trp					
	210	215	220			
Ser Asp Ile Glu Cys	Val His Lys Glu Ser Gly Asn Gly His Asn Ile					
225	230	235	240			
Trp Val Ile Leu	Val Val Thr Leu Val Val Pro Leu Leu Leu Val Ala					
	245	250	255			
Val Leu Ile Val	Cys Cys Cys Ile Gly Ser Gly Cys Gly Gly Asp Pro					
	260	265	270			
Lys Cys Met Asp	Arg Val Cys Phe Trp Arg Leu Gly Leu Leu Arg Gly					
	275	280	285			
Pro Gly Ala Glu	Asp Asn Ala His Asn Glu Ile Leu Ser Asn Ala Asp					
	290	295	300			
Ser Leu Ser Thr	Phe Val Ser Glu Gln Gln Met Glu Ser Gln Glu Pro					
305	310	315	320			
Ala Asp Leu Thr	Gly Val Thr Val Gln Ser Pro Gly Glu Ala Gln Cys					
	325	330	335			
Leu Leu Gly Pro	Ala Glu Ala Glu Gly Ser Gln Arg Arg Arg Leu Leu					
	340	345	350			
Val Pro Ala Asn	Gly Ala Asp Pro Thr Glu Thr Leu Met Leu Phe Phe					
	355	360	365			
Asp Lys Phe Ala	Asn Ile Val Pro Phe Asp Ser Trp Asp Gln Leu Met					
	370	375	380			
Arg Gln Leu Asp	Leu Thr Lys Asn Glu Ile Asp Val Val Arg Ala Gly					
385	390	395	400			
Thr Ala Gly Pro	Gly Asp Ala Leu Tyr Ala Met Leu Met Lys Trp Val					
	405	410	415			
Asn Lys Thr Gly	Arg Asn Ala Ser Ile His Thr Leu Leu Asp Ala Leu					
	420	425	430			
Glu Arg Met Glu	Glu Arg His Ala Lys Glu Lys Ile Gln Asp Leu Leu					
	435	440	445			
Val Asp Ser Gly	Lys Phe Ile Tyr Leu Glu Asp Gly Thr Gly Ser Ala					

450

455

460

Val Ser Leu Glu
465

<210> 20
<211> 39
<212> PRT
<213> human

<220>
<223> Trail R1 extracellular domain (AA 201-239)

<400> 20
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Ser Gly Asn Gly His Asn
35

<210> 21
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1
(AA99-120) with an overlapping amino acid (TRAILR1
AA 233 and huIgG1 AA 99)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 21
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
35 40 45

Pro Glu Leu Leu Gly Gly
50

<210> 22

<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAILR1 AA
232 and huIgG1 AA 101)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 22
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15
Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30
Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45
Leu Gly Gly
50

<210> 23
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1
(AA99-120) with an overlapping amino acid (TRAILR1
AA 234 and huIgG1 AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 23
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15
Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30
Glu Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45
Leu Leu Gly Gly
50

<210> 24
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1
(AA99-120) with an overlapping amino acid (TRAILR1
AA 238 and huIgG1 AA 107)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 24
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15
Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30
Glu Ser Gly Asn Gly His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45
Leu Gly Gly
50

<210> 25
<211> 440
<212> PRT
<213> human

<220>
<223> Trail-R2 >sp/014763/T10B_HUMAN Tumor necrosis
factor receptor superfamily member 10B precursor
(Death receptor 5) (TNF-related
apoptosis-including ligand receptor 2) (TRAIL
receptor-2) (TRAIL-R2)

<400> 25
Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys
1 5 10 15
Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
20 25 30
Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
35 40 45
Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
50 55 60
Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu
65 70 75 80

Cys	Pro	Pro	Gly	His	His	Ile	Ser	Glu	Asp	Gly	Arg	Asp	Cys	Ile	Ser		
				85					90					95			
Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	Leu	Leu	Phe		
			100					105					110				
Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro		
		115					120					125					
Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe		
	130					135					140						
Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys		
145					150					155					160		
Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile		
			165					170						175			
Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Thr	Lys	His	Ser	Gly	Glu	Ala	Pro		
		180					185						190				
Ala	Val	Glu	Glu	Thr	Val	Thr	Ser	Ser	Pro	Gly	Thr	Pro	Ala	Ser	Pro		
	195						200					205					
Cys	Ser	Leu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	Ala	Val	Val		
	210				215					220							
Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	Lys	Lys	Val		
225				230						235					240		
Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	Asp	Pro	Glu		
			245						250					255			
Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	Asn	Val	Leu		
		260						265					270				
Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	Pro	Glu	Gln	Glu		
	275						280					285					
Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	Val	Asn	Met	Leu	Ser		
	290				295						300						
Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala	Glu	Arg	Ser		
305					310					315				320			
Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	Asn	Glu	Gly	Asp	Pro	Thr	Glu		
				325					330					335			
Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe	Ala	Asp	Leu	Val	Pro	Phe	Asp		
		340						345					350				
Ser	Trp	Glu	Pro	Leu	Met	Arg	Lys	Leu	Gly	Leu	Met	Asp	Asn	Glu	Ile		
	355						360					365					
Lys	Val	Ala	Lys	Ala	Glu	Ala	Ala	Gly	His	Arg	Asp	Thr	Leu	Tyr	Thr		
	370					375					380						

Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala Ser Val His
 385 390 395 400

Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu Ala Lys Gln
 405 410 415

Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met Tyr Leu Glu
 420 425 430

Gly Asn Ala Asp Ser Ala Met Ser
 435 440

<210> 26
 <211> 40
 <212> PRT
 <213> human

<220>
 <223> Trail R2 (long) extracellular domain (AA 171-210),
 "repeat" included

<400> 26
 Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
 1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
 20 25 30

Gly Thr Pro Ala Ser Pro Cys Ser
 35 40

<210> 27
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R2(long)-Fc fusion protein of Trail R1
 extracellular domain (AA 171-210) Trail R2 (long)
 extracellular domain (AA 171-210), "repeat"
 included) and huIgG1 (AA99-120) with an
 overlapping amino acid

<220>
 <223> Trail-R2(long)-Fc fusion protein of Trail R2
 extracellular domain (AA 171-210; "repeat"
 included) and huIgG1 (AA99-120) with an
 overlapping amino acid (TRAIL-R2(long) AA 210 and
 huIgG1 AA 102)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 27

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15
His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30
Gly Thr Pro Ala Ser Pro Cys Ser Cys Asp Lys Thr His Thr Cys Pro
35 40 45
Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 28

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 207 and
huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 28

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15
His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30
Gly Thr Pro Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
35 40 45
Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 29

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 208 and
huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 29

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
35 40 45

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 30

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 205 and
huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 30

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
35 40 45

Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 31

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R1
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an

overlapping amino acid (TRAIL-R2(long) AA 209 and
huIgG1 AA 103)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 31

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Cys Asp Lys Thr His Thr Cys Pro Pro Cys
35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 32

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 204 and
huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 32

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 33

<211> 21

<212> PRT

<213> human

<220>

<223> Trail R2 (long) extracellular domain (AA 171-191;
"repeat" not included)

<400> 33

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala
20

<210> 34

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA 171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA190 and
huIgG1 AA99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 34

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
20 25 30

Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40

<210> 35

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA186 and
huIgG1 AA101)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 35

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
20 25 30

Leu Gly Gly
35

<210> 36
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA188 and
huIgG1 AA102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 36
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
20 25 30

Leu Leu Gly Gly
35

<210> 37
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA185 and
huIgG1 AA106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 37
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr His
1 5 10 15

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
20 25

<210> 38
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA187 and
huIgG1 AA107)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 38
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15
His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
20 25 30

<210> 39
<211> 411
<212> PRT
<213> human

<220>
<223> Trail-R2 (short) >sp/014763/T10B_HUMAN Tumor
necrosis factor receptor superfamily 10B precursor
(Death receptor 5) (TNF-related apoptosis-inducing
ligand receptor 2) (TRAIL receptor-2) (TRAIL-R2)

<400> 39
Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys
1 5 10 15
Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
20 25 30
Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
35 40 45
Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
50 55 60
Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu
65 70 75 80
Cys Pro Pro Gly His His Ile Ser Glu Asp Gly Arg Asp Cys Ile Ser
85 90 95

Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	Leu	Leu	Phe	100	105	110
Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro	115	120	125
Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	130	135	140
Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	145	150	155
Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	165	170	175
Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	180	185	190
Ala	Val	Val	Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	195	200	205
Lys	Lys	Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	210	215	220
Asp	Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	225	230	235
Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	Pro	245	250	255
Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	Val	Asn	260	265	270
Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala	275	280	285
Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	Asn	Glu	Gly	Asp	290	295	300
Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe	Ala	Asp	Leu	Val	305	310	315
Pro	Phe	Asp	Ser	Trp	Glu	Pro	Leu	Met	Arg	Lys	Leu	Gly	Leu	Met	Asp	325	330	335
Asn	Glu	Ile	Lys	Val	Ala	Lys	Ala	Glu	Ala	Ala	Gly	His	Arg	Asp	Thr	340	345	350
Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	Val	Asn	Lys	Thr	Gly	Arg	Asp	Ala	355	360	365
Ser	Val	His	Thr	Leu	Leu	Asp	Ala	Leu	Glu	Thr	Leu	Gly	Glu	Arg	Leu	370	375	380
Ala	Lys	Gln	Lys	Ile	Glu	Asp	His	Leu	Leu	Ser	Ser	Gly	Lys	Phe	Met	385	390	395

Tyr Leu Glu Gly Asn Ala Asp Ser Ala Met Ser
405 410

<210> 40
<211> 34
<212> PRT
<213> human

<220>
<223> Trail-R2 (short) extracellular domain (AA 151 - AA
184)

<400> 40
Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15
Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30

Ser Gly

<210> 41
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 182 and huIgG1 AA 99)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 41
Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15
Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30
Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 42
<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 181 and huIgG1 AA 101)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 42

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Ser
20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
35 40 45

Gly Gly
50

<210> 43

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 183 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 43

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45

Leu Gly Gly
50

<210> 44

<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 180 and huIgG1 AA 107)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 44
Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Thr Cys
20 25 30

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40

<210> 45
<211> 259
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3>sp/014798/T10C_HUMAN Tumor necrosis
factor receptor superfamily member 10C
precursor;Decoy receptor 1;DcR1;Decoy TRAIL
receptor without death domain;TNF-related
apoptosis inducing ligand r3

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 45
Met Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile Val Ala
1 5 10 15

Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu
20 25 30

Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe
35 40 45

Lys Gly Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly
50 55 60

Ala Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn
65 70 75 80

Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys

85										90					95						
His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg	Asp	Thr	Val	Cys	Gln	Cys	Lys						
			100					105					110								
Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys						
		115					120					125									
Ser	Arg	Cys	Pro	Ser	Gly	Glu	Val	Gln	Val	Ser	Asn	Cys	Thr	Ser	Trp						
		130				135					140										
Asp	Asp	Ile	Gln	Cys	Val	Glu	Glu	Phe	Gly	Ala	Asn	Ala	Thr	Val	Glu						
145					150					155					160						
Thr	Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	Ser	Pro	Gly	Thr	Pro	Ala						
				165					170					175							
Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro						
			180				185						190								
Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala						
		195					200					205									
Ala	Glu	Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala						
	210					215				220											
Glu	Glu	Thr	Met	Thr	Thr	Ser	Pro	Gly	Thr	Pro	Ala	Ser	Ser	His	Tyr						
225					230					235					240						
Leu	Ser	Cys	Thr	Ile	Val	Gly	Ile	Ile	Val	Leu	Ile	Val	Leu	Leu	Ile						
				245					250					255							
Val	Phe	Val																			

<210> 46

<211> 36

<212> PRT

<213> human

<220>

<223> Trail-R3 extracellular domain (AA 201-236;
"repeats" included)

<400> 46

Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	Ser
1				5					10					15	

Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	Ser	Pro
		20						25					30		

Gly	Thr	Pro	Ala
		35	

<210> 47
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 235 and huIgG1
AA 100)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 47
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15
Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30
Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
35 40 45
Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 48
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 232and huIgG1
AA 100)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 48
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15
Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30
Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45
Leu Leu Gly Gly

50

<210> 49
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 231 and huIgG1
AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 49
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Thr Met Thr Thr Ser Cys
20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly

<210> 50
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 234 and huIgG1
AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 50
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly

<210> 51
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 201-236; "repeats"
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 230 and huIgG1
 AA 106)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 51
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Thr Met Thr Thr Ser
 1 5 10 15
 Pro Gly Thr Pro Ala Pro Ala Ala Glu Thr Met Thr Thr His Thr
 20 25 30
 Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 35 40

<210> 52
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 201-236; "repeats"
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 229 and huIgG1
 AA 106)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 52
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Thr Met Thr Thr Ser
 1 5 10 15
 Pro Gly Thr Pro Ala Pro Ala Ala Glu Thr Met Thr His Thr Cys
 20 25 30
 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly

35

40

<210> 53
 <211> 41
 <212> PRT
 <213> human

<220>

<223> Trail-R3 extracellular domain (AA 121-161,
 "repeats" not included)

<400> 53

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
 1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
 20 25 30

Phe Gly Ala Asn Ala Thr Val Glu Thr
 35 40

<210> 54
 <211> 61
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 121-161; "repeats"not
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 160 and
 huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 54

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
 1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
 20 25 30

Phe Gly Ala Asn Ala Thr Val Glu Pro Lys Ser Cys Asp Lys Thr His
 35 40 45

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 50 55 60

<210> 55
 <211> 53

<212> PRT
<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3 extracellular domain (AA 121-161; "repeats"not included) and huIgG1 (AA 99-120) with an overlapping amino acid (TRAIL-R3 AA 152 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 55

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 56

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3 extracellular domain (AA 121-161; "repeats"not included) and huIgG1 (AA 99-120) with an overlapping amino acid (TRAIL-R3 AA 151 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 56

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Pro
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 57
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats"not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 161 and
huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 57
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15
Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30
Phe Gly Ala Asn Ala Thr Val Glu Thr His Thr Cys Pro Pro Cys Pro
35 40 45
Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 58
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats"not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 158 and
huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 58
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15
Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30
Phe Gly Ala Asn Ala Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45
Leu Leu Gly Gly

<210> 59
 <211> 386
 <212> PRT
 <213> human

<220>

<223> Trail-R4>sp/Q9UBN6/T10D_HUMAN Tumor necrosis
 factor receptor superfamily member 10D
 precursor;Decoy receptor 2; DcR2; TNF-related
 apoptosis-inducing ligand receptor 4)

<400> 59

Met	Gly	Leu	Trp	Gly	Gln	Ser	Val	Pro	Thr	Ala	Ser	Ser	Ala	Arg	Ala	1	5	10	15
Gly	Arg	Tyr	Pro	Gly	Ala	Arg	Thr	Ala	Ser	Gly	Thr	Arg	Pro	Trp	Leu	20	25	30	
Leu	Asp	Pro	Lys	Ile	Leu	Lys	Phe	Val	Val	Phe	Ile	Val	Ala	Val	Leu	35	40	45	
Leu	Pro	Val	Arg	Val	Asp	Ser	Ala	Thr	Ile	Pro	Arg	Gln	Asp	Glu	Val	50	55	60	
Pro	Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg	Arg	Ser	Leu	Lys	Glu	65	70	75	80
Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser	Glu	Tyr	Thr	Gly	Ala	Cys	85	90	95	
Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr	Thr	Ile	Ala	Ser	Asn	Asn	Leu	100	105	110	
Pro	Ser	Cys	Leu	Leu	Cys	Thr	Val	Cys	Lys	Ser	Gly	Gln	Thr	Asn	Lys	115	120	125	
Ser	Ser	Cys	Thr	Thr	Thr	Arg	Asp	Thr	Val	Cys	Gln	Cys	Glu	Lys	Gly	130	135	140	
Ser	Phe	Gln	Asp	Lys	Asn	Ser	Pro	Glu	Met	Cys	Arg	Thr	Cys	Arg	Thr	145	150	155	160
Gly	Cys	Pro	Arg	Gly	Met	Val	Lys	Val	Ser	Asn	Cys	Thr	Pro	Arg	Ser	165	170	175	
Asp	Ile	Lys	Cys	Lys	Asn	Glu	Ser	Ala	Ala	Ser	Ser	Thr	Gly	Lys	Thr	180	185	190	
Pro	Ala	Ala	Glu	Glu	Thr	Val	Thr	Thr	Ile	Leu	Gly	Met	Leu	Ala	Ser	195	200	205	
Pro	Tyr	His	Tyr	Leu	Ile	Ile	Ile	Val	Val	Leu	Val	Ile	Ile	Leu	Ala	210	215	220	

Val Val Val Val Gly Phe Ser Cys Arg Lys Lys Phe Ile Ser Tyr Leu
 225 230 235 240
 Lys Gly Ile Cys Ser Gly Gly Gly Gly Gly Pro Glu Arg Val His Arg
 245 250 255
 Val Leu Phe Arg Arg Arg Ser Cys Pro Ser Arg Val Pro Gly Ala Glu
 260 265 270
 Asp Asn Ala Arg Asn Glu Thr Leu Ser Asn Arg Tyr Leu Gln Pro Thr
 275 280 285
 Gln Val Ser Glu Gln Glu Ile Gln Gly Gln Glu Leu Ala Glu Leu Thr
 290 295 300
 Gly Val Thr Val Glu Ser Pro Glu Glu Pro Gln Arg Leu Leu Glu Gln
 305 310 315 320
 Ala Glu Ala Glu Gly Cys Gln Arg Arg Arg Leu Leu Val Pro Val Asn
 325 330 335
 Asp Ala Asp Ser Ala Asp Ile Ser Thr Leu Leu Asp Ala Ser Ala Thr
 340 345 350
 Leu Glu Glu Gly His Ala Lys Glu Thr Ile Gln Asp Gln Leu Val Gly
 355 360 365
 Ser Glu Lys Leu Phe Tyr Glu Glu Asp Glu Ala Gly Ser Ala Thr Ser
 370 375 380
 Cys Leu
 385

<210> 60
 <211> 41
 <212> PRT
 <213> human

<220>
 <223> Trail-R4 extracellular domain (AA 171-211)

<400> 60
 Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
 1 5 10 15
 Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
 20 25 30
 Leu Gly Met Leu Ala Ser Pro Tyr His
 35 40

<210> 61

<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 209 and huIgG1 AA 100)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 61
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30
Leu Gly Met Leu Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys
35 40 45
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 62
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 208 and huIgG1 AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 62
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30
Leu Gly Met Leu Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
35 40 45
Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 63
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 201 and huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 63
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr His
20 25 30
Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 64
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 211 and huIgG1 AA 107)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 64
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30
Leu Gly Met Leu Ala Ser Pro Tyr His Thr Cys Pro Pro Cys Pro Ala
35 40 45
Pro Glu Leu Leu Gly Gly
50

<210> 65
<211> 455

<212> PRT
<213> human

<220>

<223> TNF-R1 >sp/P19438/TR1A_HUMAN necrosis factor
receptor superfamily member 1A precursor (p60)
(TNF-R1) (p55) (CD120a) [contains: Tumor necrosis
factor binding protein 1 (TBPI)]

<400> 65

Met	Gly	Leu	Ser	Thr	Val	Pro	Asp	Leu	Leu	Leu	Pro	Leu	Val	Leu	Leu
1				5				10						15	
Glu	Leu	Leu	Val	Gly	Ile	Tyr	Pro	Ser	Gly	Val	Ile	Gly	Leu	Val	Pro
			20					25					30		
His	Leu	Gly	Asp	Arg	Glu	Lys	Arg	Asp	Ser	Val	Cys	Pro	Gln	Gly	Lys
		35					40					45			
Tyr	Ile	His	Pro	Gln	Asn	Asn	Ser	Ile	Cys	Cys	Thr	Lys	Cys	His	Lys
	50					55					60				
Gly	Thr	Tyr	Leu	Tyr	Asn	Asp	Cys	Pro	Gly	Pro	Gly	Gln	Asp	Thr	Asp
65					70					75				80	
Cys	Arg	Glu	Cys	Glu	Ser	Gly	Ser	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu
			85						90					95	
Arg	His	Cys	Leu	Ser	Cys	Ser	Lys	Cys	Arg	Lys	Glu	Met	Gly	Gln	Val
			100					105					110		
Glu	Ile	Ser	Ser	Cys	Thr	Val	Asp	Arg	Asp	Thr	Val	Cys	Gly	Cys	Arg
		115					120					125			
Lys	Asn	Gln	Tyr	Arg	His	Tyr	Trp	Ser	Glu	Asn	Leu	Phe	Gln	Cys	Phe
	130					135					140				
Asn	Cys	Ser	Leu	Cys	Leu	Asn	Gly	Thr	Val	His	Leu	Ser	Cys	Gln	Glu
145				150					155					160	
Lys	Gln	Asn	Thr	Val	Cys	Thr	Cys	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu
			165					170						175	
Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys	Lys	Ser	Leu	Glu	Cys	Thr
			180					185					190		
Lys	Leu	Cys	Leu	Pro	Gln	Ile	Glu	Asn	Val	Lys	Gly	Thr	Glu	Asp	Ser
	195					200						205			
Gly	Thr	Thr	Val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Phe	Gly	Leu	Cys	Leu
	210					215						220			
Leu	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tyr	Arg	Tyr	Gln	Arg	Trp	Lys
225				230					235					240	
Ser	Lys	Leu	Tyr	Ser	Ile	Val	Cys	Gly	Lys	Ser	Thr	Pro	Glu	Lys	Glu
			245					250						255	

Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser
 260 265 270
 Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val
 275 280 285
 Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys
 290 295 300
 Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly
 305 310 315 320
 Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn
 325 330 335
 Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp
 340 345 350
 Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
 355 360 365
 Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
 370 375 380
 Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
 385 390 395 400
 Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
 405 410 415
 Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
 420 425 430
 Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
 435 440 445
 Pro Ala Pro Ser Leu Leu Arg
 450 455

<210> 66

<211> 41

<212> PRT

<213> human

<220>

<223> TNF-R1 extracellular domain (AA 171-211)

<400> 66

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
 1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
 20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr Thr
35 40

<210> 67

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 206 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 67

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
35 40 45

Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 68

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 101)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 68

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 69

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 105)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 69

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 70

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 208 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 70

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 71

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 207 and huIgG1 AA 104)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 71

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 72

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 211 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 72

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
 1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
 20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr Thr His Thr Cys Pro Pro Cys Pro
 35 40 45

Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 73

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 210 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 73

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
 1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
 20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr His Thr Cys Pro Pro Cys Pro Ala
 35 40 45

Pro Glu Leu Leu Gly Gly
 50

<210> 74

<211> 461

<212> PRT

<213> human

<220>

<223> TNF-R2 >sp/P20333/TR1B_HUMAN necrosis factor receptor superfamily member 1B precursor (p80) (TNF-R2) (p75) (CD120b) [contains: Tumor necrosis factor binding protein 2 (TBPII)]

<400> 74

Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu Leu

1	5	10	15
Trp	Ala	Ala	Ala
20	25	30	
Ala	Pro	Glu	Pro
35	40	45	
Thr	Ala	Gln	Met
50	55	60	
Val	Phe	Cys	Thr
65	70	75	
Ser	Thr	Tyr	Thr
85	90	95	
Gly	Ser	Arg	Cys
100	105	110	
Glu	Gln	Asn	Arg
115	120	125	
Ser	Lys	Gln	Glu
130	135	140	
Pro	Gly	Phe	Gly
145	150	155	
Cys	Lys	Pro	Cys
165	170	175	
Asp	Ile	Cys	Arg
180	185	190	
Asn	Ala	Ser	Met
195	200	205	
Met	Ala	Pro	Gly
210	215	220	
Gln	His	Thr	Gln
225	230	235	
Phe	Leu	Leu	Pro
245	250	255	
Asp	Phe	Ala	Leu
260	265	270	
Leu	Leu	Ile	Ile
275	280	285	
Lys	Lys	Pro	Leu
290	295	300	
Ala	Asp	Lys	Ala

305 310 315 320
 Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser
 325 330 335
 Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly
 340 345 350
 Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser
 355 360 365
 Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile
 370 375 380
 Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln
 385 390 395 400
 Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro
 405 410 415
 Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser
 420 425 430
 Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro
 435 440 445
 Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro Ser
 450 455 460

<210> 75

<211> 37

<212> PRT

<213> human

<220>

<223> TNF-R2 extracellular domain (AA 221-257)

<400> 75

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
 1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
 20 25 30

Gly Ser Thr Gly Asp
 35

<210> 76

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 252 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 76

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 77

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 250 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 77

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Lys Ser
20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
35 40 45

Gly Gly
50

<210> 78

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 249 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 78

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Lys Ser Cys
20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly

<210> 79

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 254 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 79

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 80
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 248 and huIgG1 AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 80
Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15
Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Cys Asp Lys Thr
20 25 30
His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 81
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 257 and huIgG1 AA 104)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 81
Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15
Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30
Gly Ser Thr Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45
Glu Leu Leu Gly Gly
50

<210> 82
<211> 49
<212> PRT
<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 255 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 82

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly